Please add the following new claim 6 for consideration:

6. What is claimed and desired to be secured by United States Letter Patent is:

A sulphurous acid generator comprising:

a supply of sulphur dioxide gas conducted in a first conduit and means for drawing the sulphur dioxide gas through the first conduit;

a supply of water conducted in a second conduit;

a third conduit coupled to the first and second conduits comprising:

a blending portion and at least one contact containment portion;

in the first conduit and water from the second conduit into contained,

codirectional flow whereby the sulphur dioxide gas and water are

brought into contact with each other,

the contact containment portion(s) comprising a passageway through which
the sulphur dioxide gas and the water codirectionally flow in contact
with each other and in which at least a portion of the sulphur dioxide
gas reacts with water to form sulphurous acid, and

means for discharging the sulphurous acid and unreacted sulphur dioxide gas,

the discharge means in communication with ambient pressure, the

first and third conduits defining an apparatus open to ambient

pressure;

a mixing tank into which the sulphurous acid and unreacted sulphur dioxide are
discharged from the third conduit, the mixing tank temporarily retaining the
discharged sulphurous acid in a submersion pool;

means for facilitating and maintaining the submersion of unreacted sulphur dioxide

gas discharged from them the third conduit into the submersion pool of
sulphurous acid to substantially reduce the separation of unreacted sulphur

dioxide gas from contact with the sulphurous acid to promote further reaction of the sulphur dioxide gas into the sulphurous acid;

the mixing tank defining an outlet subject to ambient pressure through which the sulphurous acid may pass to exit the mixing tank;

the mixing tank, the facilitating and maintaining means, and the outlet defining an open system thereby avoiding subjecting the sulphur dioxide gas to a system pressure;

unreacted sulphur dioxide gas passes from the mixing tank, the absorption tower comprising means for creating a flow of water counter-current to the flow of sulphur dioxide gas, the tower containing a tortuous maze of pathways through which the water and sulphur dioxide gas will pass in counter-current flow, and in which sulphur dioxide gas and water come into contact to form sulphurous acid, the absorption tower having an exhaust vent through which sulphur dioxide not reacted in the tower may pass;

a supply of unreacted sulphur dioxide gas conducted in a vent conduit in communication with the exhaust vent and means for drawing the sulphur dioxide gas through the vent conduit;

a supply of water conducted in a supplemental water conduit;

## a fourth conduit comprising:

a blending portion and at least one contact containment portion;

the blending portion comprising means for bringing the sulphur

dioxide gas in the vent conduit and water from the

supplemental water conduit into contained, codirectional flow

whereby the sulphur dioxide gas and water are brought into

contact with each other,